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mode, where when the normal mode is changed to the power-saving mode a power supply to the first power domain is shut off, the first memory operates in a self-refresh mode, and the main controller copies central processing unit (CPU) context information into a context storage unit, and when the power-saving mode is changed to the normal mode, the main controller is booted using the CPU context information stored in the context storage unit.

FIG. 1 is a block diagram of a system architecture. The system is divided into two main sections, PD1 and PD2, separated by a vertical line. In PD1, there is a Functional Unit 135 and an Engine Unit 140. In PD2, there is a Context Storage Unit 145, First Memory 115, Second Memory 125, and a Data Receiver 105. A Central Processing Unit (CPU) 160 is connected to a Power Supply Unit 130, a Main Controller 110, and a Sub-Controller 120. The Main Controller 110 is connected to the Functional Unit 135 and the Engine Unit 140. The Sub-Controller 120 is connected to the Context Storage Unit 145, First Memory 115, Second Memory 125, and the Data Receiver 105. The Power Supply Unit 130 is connected to the CPU 160 and the Sub-Controller 120.



EUROPEAN SEARCH REPORT

Application Number
EP 11 17 8100

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	EP 1 035 499 A2 (SEIKO EPSON CORP [JP]) 13 September 2000 (2000-09-13) * paragraph [0015] - paragraph [0023]; figures 1,2 * * paragraph [0029] - paragraph [0031] *	1-15	INV. G06F3/06 G06F1/32 G06F3/12
A	WO 2009/140758 A1 (ATI TECHNOLOGIES ULC [CA]; ESLIGER JAMES LYALL [CA]) 26 November 2009 (2009-11-26) * paragraph [0036] *	1	ADD. H04N1/00
A	US 2009/204837 A1 (RAVAL UDAYKUMAR [US] ET AL) 13 August 2009 (2009-08-13) * the whole document *	1-15	
A	US 2009/207423 A1 (SHIMIZU KOJI [JP] ET AL) 20 August 2009 (2009-08-20) * paragraph [0091] - paragraph [0109]; figures 6a, 6b, 7 *	1-15	
A	US 2010/205467 A1 (PARK JINKWON [KR]) 12 August 2010 (2010-08-12) * paragraph [0008] - paragraph [0023] *	1-15	TECHNICAL FIELDS SEARCHED (IPC) G06F H04N G03G
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 26 September 2012	Examiner Absalom, Richard
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
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